UNITED STATES PATENT AND TRADEMARK OFFICE

(Case No. 01-026 A)

In re Application of:)
	Ali Akgun et al.)
Serial 1	No.: 09/899,365)
Filed:	July 2, 2001)
For:	Communication of Packet Arrival Times To Cable Modem Termination System And Uses Thereof))))

EXHIBIT A TO SECOND PRELIMINARY AMENDMENT

Marked up version of claim amendments

- 12. In a data-over-cable system, a method for minimizing accumulation of TCP ACK packets at a cable modem, comprising the steps of:
- [d)] a) said cable modem time stamping the arrival of TCP ACK packets from an end station connected to said cable modem;
- [e)] b) transmitting one or more packets from said cable modem to a cable modem termination system containing data associated with a plurality of said time stamps;
- [f)] c) said cable modem termination system obtaining from said time stamps a periodicity of TCP ACK packets arriving at said cable modem and responsively conducting a grant of bandwidth service for said cable modem based on said periodicity for transmission of said TCP ACK packets to said cable modem termination system.

- 23. A method of decreasing latency in a Voice over Internet Protocol (VoIP) session between a cable modem and a cable modem termination system, said cable modem termination system periodically transmitting grants of bandwidth during a nominal grant interval having a boundary in time commencing said nominal grant interval, the method comprising the steps of:
 - [d)] a) determining the latency L between a nominal interval grant boundary and the arrival of a voice packet at said cable modem;
 - [e)] b) said cable modem termination system determining said latency L; and
 - [f)] c) said cable modem termination system shifting said nominal interval grant boundary an amount equal to L.